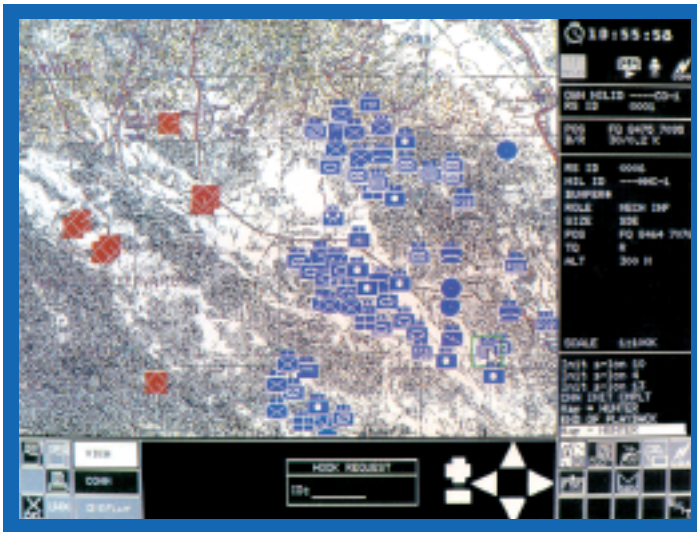
Raytheon

Enhanced Position Location Reporting System (EPLRS)



A versatile, integrated networking system, the EPLRS (Enhanced Position Location Reporting System) provides the U.S. Army with fast, reliable communications, assuring command control cycle superiority.

Benefits

- Supports a broad range of missions by integrating battlefield communication systems
- Delivers crucial information to the right place at the right time with optimal security and reliability
- Provides for future interoperability with systems such as JTRS (Joint Tactical Radio System)
- Enables position/navigation throughout maneuver brigades and supports U.S. Army Battle Command System
- Low cost makes EPLRS affordable for all combat and combat support units

Broad-Range Mission Support

EPLRS provides robust, high-speed battlefield communications for warfighters on the move. Its contention-free networking architecture integrates current battlefield systems and ensures speedy data exchange in time-critical situations.

EPLRS' data collection and communication capabilities cover a wide variety of missions—from air defense to logistics support and beyond. In air defense, where distributing command and control information and exchanging air track data are crucial, EPLRS reliably meets the challenge. In fire support missions, it simultaneously distributes artillery fire requests and mission support data to multiple destinations—a major benefit to warfighters.

EPLRS meets the demanding requirements of Intelligence and Electronic Warfare by collecting data from widely dispersed systems in forward battle areas and sending it back to the combat force. Enhancing the system's reliability, the EPLRS network automatically reconfigures itself to overcome the line-of-sight limitations of ultra high-frequency communications and jamming threats.

In logistics support operations, EPLRS' data communication, position-location reporting, and navigation functions play an integral role. Through the FBCB2 (Force XXI Battle Command Brigade and Below) system, EPLRS relays unit identification, position location, and unit operational status data to the Maneuver Control Forces.

The data is displayed on the FBCB2 platform hosts and the EPLRS NCS (Net Control Station) operator console, as well as on command and control center displays.

EPLRS provides the NCS operator with a situation awareness display of friendly unit locations. It also provides e-mail, reports, and other

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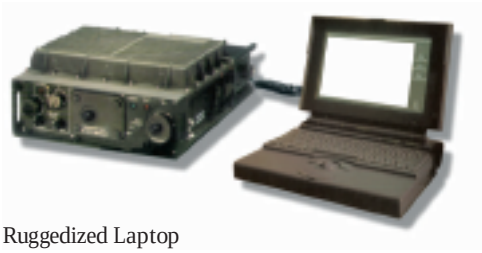
information to assist commanders during force deployments and maneuvers.

Future Growth Capability
Designed to support growth, EPLRS' network architecture provides for future interoperability with systems such as the JTRS (Joint Tactical Radio System) next-generation radio.

The Power of Timely Information
Timely information is a force multiplier. EPLRS delivers critical information to the right place at the right time, enabling commanders at all levels to make the right decision.



Ruggedized Laptop

EPLRS	
System Features	
n Robust, self-healing network architecture	
n Externally programmable firmware	
n Contention-free access and guaranteed speed of service	
n Automatic network management and relay	
n Jam-resistant, LPI/LPD, spread spectrum,frequency-hopping waveform	
AN/TSDQ-158(V)4 Net Control Station Functions	
n Establishes network	
n Automatically processes position location and ID information	
n Re-keys radios over the air	
n Activates and deactivates network links and connections	
n Monitors network	
n Provides 15m (CEP) position accuracy	
RT-1720(V) EPUU – Radio Features	
n Frequency:	UHF-Wideband
n System Size:	Up to 1500 radios per division
n Security:	Embedded Crypto
n Radio Links:	Up to 30 simultaneous independent data paths per radio. Automatic route establishment, maintenance and reconfiguration
n Data Rates:	Variable data rates—up to 525 Kbps
n Configuration:	Manpack, vehicular and airborne

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